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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/814,497

03/30/2004

Mun Wang Jin

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6463

7590

10/05/2005

Richard P. Berg
Ladas & Parry
Suite 2100
5670 Wilshire Boulevard
Los Angeles, CA 90036

EXAMINER

GOINS, DAVETTA WOODS

ART UNIT

PAPER NUMBER

2632

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/814,497

Applicant(s)

JIN ET AL.

Examiner

Davetta W. Goins

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 15 is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☒ Claim(s) 8-14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/13/04</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 8-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

2. Claim 15 is allowed.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lander et al. (US Pat. 6,496,220 B2) in view of Shimokoriyama (US Pat. 5,874,996).

In reference to claim 1-7, Lander discloses the claimed sensor including cameras that are arranged with fixed spatial orientation to form a stereo detector 2D distributions of light intensity of a surveillance zone, the stereo detector resister images and transmit the stereo images to processing blocks, which is met by stereo camera. Based on the image of the first camera 8 it is calculated what the second camera 28 should "see" under the precondition that the observed image segment 29 of camera 8 lies effectively in the image area 30 of camera 28. If the calculated image agrees with the image effectively "seen" by camera 28, an object lies

effectively in the image plane acquired by both cameras 8, 28 (col. 6, lines 13-27). Lander does not specifically disclose the claimed processing of a sequence of stereo images with different frequencies (high and low) for determining the presence of an intruder. Shimokoriyama discloses a movement detection circuit 106 with an arrangement including Pixel data read out from the frame memory 104 (FIG. 3) in an order of numbers as shown in FIG. 5 are input from the input terminal 201, and the D-latch 202 delays input data by one data and outputs the delayed data. The subtraction circuit 203 calculates the difference between pixel data delayed by one data, and the current pixel data, and outputs a vertical high- frequency component. The discrimination circuit 208 comprises an input terminal 501 for receiving a vertical high - frequency component in a block, an input terminal 502 for receiving a vertical low-frequency component in a block, coefficient circuits 503 and 504, a division circuit 505, a subtraction circuit 506, a register 507, a positive and negative discrimination circuit 508, and an output terminal 509. Upon discrimination of an interfield correlation or movement by detecting a vertical high-frequency component in a block, since the discrimination reference value is changed in accordance with the value of a vertical low-frequency component in the block, erroneous detection for a still image having a relatively fine pattern can be prevented, and DCT adaptive control can be precisely executed (col. 4, lines 25-61; col. 6, lines 13-68). Since both Lander and Shimokoriyama disclose systems that monitor motion within an environment and compare the frequency signals from the motion detector to determine if an alarm threshold has been met, it would have been obvious to one of ordinary skill in the art at the time of the invention to determine a value of a characteristic of a high frequency component for the frequency signal or the method of setting the low frequency alarm threshold at an intermediate

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threshold value if the determined value of the characteristic of the high frequency component is indicative of a signal from a known spurious source, as disclosed by Shimokoriyama., to ensure that the image signal are selectively detected, and a probability of movement erroneous detection for a still image having an oblique stripe pattern or an image with a small movement is decreased

5. The prior art of record and not relied upon is considered pertinent to the applicant's disclosure as follows. Suzuki et al. (US Pat. 5,182,776), Wootton et al. (US Pat. 5,956,424), Chang (US Pat. 6,538,689 B1), Wallace et al. (US Pat. 6,914,526 B2) and Brill et al. (US Pat. 6,937,651 B1), which are image detecting devices.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davetta W. Goins whose telephone number is 571-272-2957. The examiner can normally be reached on Mon-Fri with every other Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on 571-272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



D.W.G.
October 2, 2005

Davetta W. Goins
Primary Examiner
Art Unit 2632